



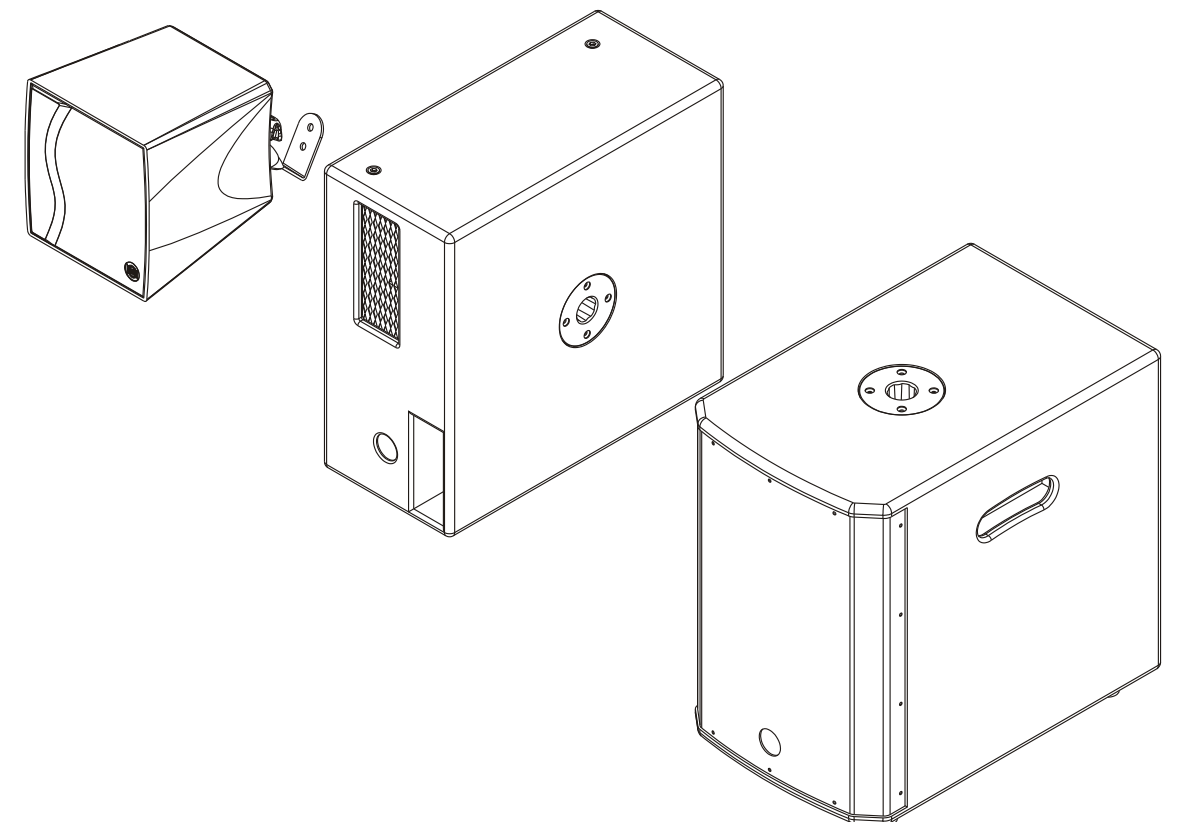
**SOHO**  
S E R I E S

## ***User's Manual***



**TOPP PRO MUSIC GEAR**  
[www.topppro.com](http://www.topppro.com)

**SOHO ARRAY SERIES**  
**SOHO M4 / SOHO S28 / SOHO S12P**



**SOHO**  
S E R I E S

Important Safety Instructions



TO REDUCE THE RISK OF ELECTRIC SHOCK PLEASE DO NOT REMOVE THE COVER OR THE BACK PANEL OF THIS EQUIPMENT. THERE ARE NO PARTS NEEDED BY USER INSIDE THE EQUIPMENT. FOR SERVICE, PLEASE CONTACT QUALIFIED SERVICE CENTERS.



This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages in the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.



This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read.



Protective Ground Terminal



AC mains (Alternating Current)



Hazardous Live Terminal

ON: Denotes the product is turned on.

OFF: Denotes the product is turned off.

CAUTION

Describes precautions that should be observed to prevent damage to the product.

1. Read this Manual carefully before operation.
2. Keep this Manual in a safe place.
3. Be aware of all warnings reported with this symbol.
4. Keep this Equipment away from water and moisture.
5. Clean it only with dry cloth. Do not use solvent or other chemicals.
6. Do not damp or cover any cooling opening. Install the equipment only in accordance with the Manufacturer's instructions.
7. Power Cords are designed for your safety. Do not remove Ground connections! If the plug does not fit your AC outlet, seek advice from a qualified electrician. Protect the power cord and plug from any physical stress to avoid risk of electric shock. Do not place heavy objects on the power. This could cause electric shock or fire.
8. Unplug this equipment when unused for long periods of time or during a storm.
9. Refer all service to qualified service personnel only. Do not perform any servicing other than those instructions contained within the User's Manual.
10. To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder.

WARNING

To reduce the risk of electric shock and fire, do not expose this equipment to moisture or rain.



Dispose of this product should not be placed in municipal waste and should be separate collection.

Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

11. Move this Equipment only with a cart, stand, tripod, or bracket, specified by the manufacturer, or sold with the Equipment. When a cart is used, use caution when moving the cart/equipment combination to avoid possible injury from tip-over.



12. Permanent hearing loss may be caused by exposure to extremely high noise levels. The US Government's Occupational Safety and Health Administration (OSHA) has specified the permissible exposure to noise level. These are shown in the following chart:

Hours x day	SPL	Example
8	90	Small gig
6	92	Train
4	95	Subway train
3	97	High level desktop monitors
2	100	Classic music concert
1.5	102	
1	105	
0.5	110	
0.25 or less	115	Rock Concert

According to OSHA, an exposure to high SPL in excess of these limits may result in the loss of hearing. To avoid the potential damage of hearing, it is recommended that Personnel exposed to equipment capable of generating high SPL use hearing protection while such equipment is under operation.

The apparatus shall be connected to a mains socket outlet with a protective earthing connection.

The mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Notas

15

# 14

## WARRANTY

**Topp Pro** guarantees the normal operation of the product against any defect of manufacture and / or vice of material, by the term of (12) months, counted as of the date of purchase on the part of the user, committing itself to repair or to change, to its election, without position some, any piece or component that will fail in normal conditions of use within the mentioned period.

This guarantee is valid if the original buyer will have to present/display this certificate properly sealed and signed by the selling house, accompanied by the corresponding invoice of purchase where it consisted the model and serial number of the acquired equipment.

The guarantee does not cover:

- Damages caused by the illegal use of the product, repair and/or non authorized modification conducted by people by **Topp Pro**.
- Damages caused by the connection of the equipment to other equipment different from the specified ones in the manual of use, or by bad connection to these last ones.
- Damages caused by electrical storms, blows and/or incorrect transport.
- Damages caused by excesses or falls of tension in the network or by connection to networks with a tension different from the required one by the unit.
- Damages caused by the presence of sand, acid of batteries, water, or any strange element inside the equipment.
- Deteriorations produced by the course of the time, use and/or normal wear of the unit.
- Alteration or absence of the serial number of factory of the equipment.

The repairs could only be carried out the authorized technical service by **Topp Pro**, that will inform about the term and other details into the repairs to take place according to this guarantee.

**Topp Pro**, will repair this unit in counted a term non greater to 30 days as of the date of entrance of the unit to the Technical Service. In those cases in that due to the particularity of the spare part, outside necessary their import, the repair time and the viability of the same one will be subject to the effective norms for the import of parts, in which case one will inquire to the user about the term and possibility into repair.

With the object of its correct operation, and of the validity of this one guarantee, this product will have to be installed and to be used according to the instructions that are detailed in the manual associate or the package of the product.

This unit will be able to appear for its repair, next to the invoice of purchase (or any other proof where the date of purchase consists), to its authorized distributor Topp Pro or an authorized technical center on watch by **Topp Pro**.

**Exclusion of damages:**

THE RESPONSABILITY OF **TOPP PRO** BY ANY DEFECTIVE PRODUCT IS LIMITED THE REPAIR OR THE REPLACEMENT OF HE HIMSELF, TO TOPP OPTION PRO. IF WE CHOSE TO REPLACE THE PRODUCT, THE REPLACEMENT CAN BE A RECONDITIONATED UNIT. TOPP PRO WILL NOT BE RESPONSIBLE BY THE DAMAGES BASED ON THE LOST, INCONVENIENCE, LOSS OF USE, BENEFITS, LOST SAVINGS, BY THE DAMAGE TO OTHER EQUIPMENT OR OTHER ARTICLES IN THE USE SITE, OR BY ANY OTHER DAMAGE IF HE IS FORTUITOUS, CONSEQUENT OR OF ANOTHER TYPE, ALTHOUGH TOPP PRO HAS BEEN NOTICED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow to the exclusion or the limitation to the fortuitous or consequent damages, so the aforesaid limitation can not be applied to you.

This guarantee gives specific legal rights, you can also have other right that varies of state to state.

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Don't forget to visit our website at [www.toppopro.com](http://www.toppopro.com)  
for more information about this and other **Topp Pro** products.

# 1 Introduction

Thank you for choosing **TOPP PRO**. The new **TOPP PRO MUSIC GEAR SOHO ARRAY SERIES** cabinets have been designed to provide a cost effective high grade solution while maintainig high quality cabinet construction and optimum components. The SOHO array series, can be used for all types of applications including, but not limited to, churches, conference centers and discos. The woofer and neodymium driver combination provides excellent performance rivaling those cabinets costing much more.

Our Professional Audio Products are designed and tested by a highly qualified engineering team with more than 20 years of experience. Great care is placed in delivering products with excellent performance, specifications and dependable reliability. Also great emphasis is placed in creating and bringing to market products that can fill multiple applications and also offer customers exceptional value.

# 2 Installation Tips

- Speakers should be placed in a position that allows for unobstructed sound projection. In many instances it is beneficial for speakers to elevate on tripod stands to achieve maximum dispersion and reach. Consider TOPP PRO speaker stand or equivalent to raise speakers.
- Using quality cables ensure best possible sound. Consider using TOPP PRO 16 or 14 gauge cables or equivalent.
- For best results match the speakers to a good amplifier that matches the wattage and impedance of your speakers. Proper amplification power results in good quality audio and longer component life. Check out.
- Avoid pointing microphone directly at an amplified speaker otherwise could cause feedback possible damaging speaker components and your hearing.

Enjoy the sound!

# 3 Useful data

Please write your serial number here for future reference.

Serial Number:

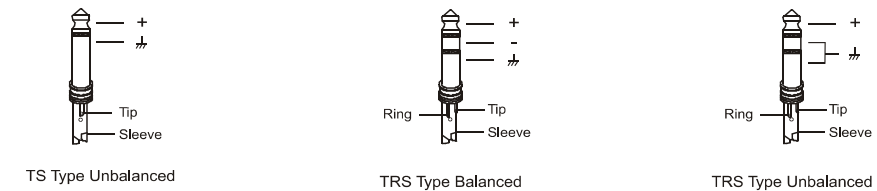
Date of purchase:

Purchased at:

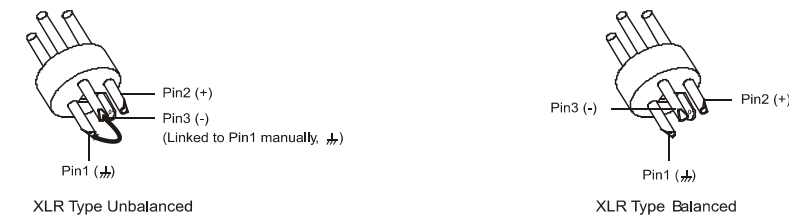
# Wire Connections

Either the 1/4" TRS phone jack or XLR connector can be wired in balanced and unbalanced modes, which will be determined by the actual application status, please wire your system as the following wiring examples:

## For 1/4" Phone jack



## For XLR connector

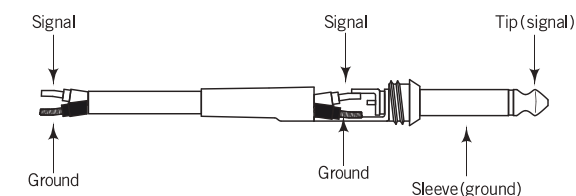


The SOHO series speaker connections are made via the rear panel 1/4" and/or Speakon connectors for easy interface with industry standard cables. Standard, unshielded speaker wire (available at your local pro audio or music store), with either 1/4" phone or Speakon connectors and wire gauge of 12-14 AWG is recommended.

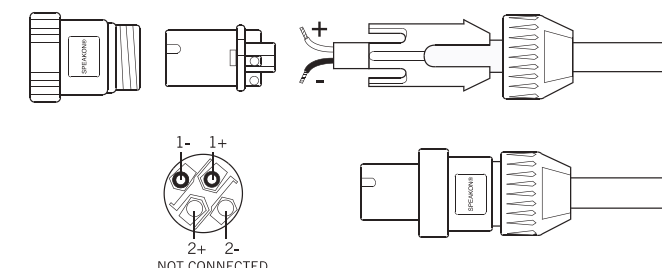
If your amplifier uses binding posts you can use speaker cables with banana connectors, but be sure to pay attention to the +/- polarity when making the connections. Make sure that the + terminal of the speaker, or banana connector, is connected to the + terminal of the power amplifier, and that the - terminal of the speaker, or banana connector, is connected to the - terminal of the power amplifier. It is important that your PA system is connected in-phase, otherwise you will not have the proper low-end response and stereo image.

Use the following diagrams below to ensure proper connections when wiring your system:

## Unbalanced 1/4" Connector



## Speakon® Wiring Guide





# 13 System Connection Plate

USER PRESET: L\_SOHO M4(4pcs)+R\_SOHO M4(4PCS) + Option (2\*SOHO S12P or 2\*SOHO S28 )

EDIT--XOVER	FILTER TYPE	FILTER SHAPE	FILTER FREQ	PHASE
OPTION 1&2(Subwoofer)	LPF	BW18	(212.7Hz---SOHO S12P) (233.3Hz---SOHO S28)	φ0
	HPF	BW12	43.2Hz	
OPTION 3&4(Satellite)	LPF	LR24	20.16kHz	φ0
	HPF	BW18	111.4Hz ( 92.6dB_No Connect Sub)	
OPTION 5&6(Satellite)	LPF	LR24	20.16kHz	φ0
	HPF	BW18	111.4Hz ( 92.6dB_No Connect Sub)	

EDIT--OUTPUT EQ	FILTER SELECT	FILTER TYPE	FILTER FREQ	FILTER Q	FILTER GAIN
OPTION 1&2(Subwoofer)	EQ1	PEAK	58.3Hz	1.5	2.5dB
	EQ2	PEAK	76.9Hz	1.26	9.0dB
	EQ3	PEAK	106.3Hz	1.5	3.5dB
	EQ4	PEAK	180.9Hz	1.3	-1dB
	EQ5	PEAK	6.21kHz	3	0dB
OPTION 3&4(Satellite)	EQ1	PEAK	227.9Hz	0.56	3.0dB
	EQ2	PEAK	1.36kHz	0.79	1.0dB
	EQ3	PEAK	7.30kHz	1	7.0dB
	EQ4	PEAK	15.28kHz	1.3	6.0dB
	EQ5	PEAK	20.16kHz	0.79	9.0dB
OPTION 5&6(Satellite)	EQ1	PEAK	227.9Hz	0.56	3.0dB
	EQ2	PEAK	1.36kHz	0.79	1.0dB
	EQ3	PEAK	7.30kHz	1	7.0dB
	EQ4	PEAK	15.28kHz	1.3	6.0dB
	EQ5	PEAK	20.16kHz	0.79	9.0dB

EDIT--OUTPUT GAIN	
OPTION 1&2(Subwoofer)	(-4dB_SOHO S12P) (-1dB_SOHO S28)
OPTION 3&4(Satellite)	0dB(Default)
OPTION 5&6(Satellite)	0dB(Default)

EDIT--INPUT EQ	FILTER SELECT	FILTER TYPE	FILTER FREQ	FILTER Q	FILTER GAIN
INPUT A(user option)	EQ1	PEAK	500.0Hz	2	1.0dB
INPUT B(user option)	EQ1	PEAK	500.0Hz	2	1.0dB

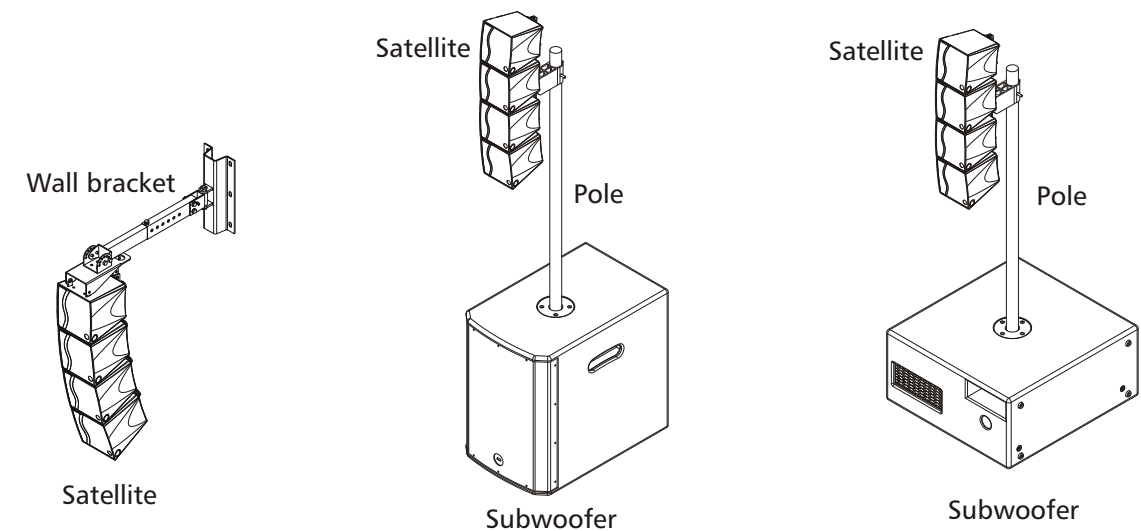
EDIT--COMP./LIM	THRESHOLD	ATTACK TIME	RELEASE TIME	RATIO
OPTION 1&2(Subwoofer)	-3dB	0ms(Default)	0ms(Default)	1:2
OPTION 3&4(Satellite)	-10dB	0ms(Default)	0ms(Default)	1:8
OPTION 5&6(Satellite)	-10dB	0ms(Default)	0ms(Default)	1:8

## Quick Start

When mounting a speaker onto any stand, always ensure that the stand is on a flat, level sur-face, with the legs fully extended. Be sure to check that the maximum load weight for the stands is greater than the weight of the **ARRAY SYSTEM** loudspeaker. Never use a stand with a maximum load weight lower than the speaker. Do not attempt to mout more than one speaker on a stand at one time.

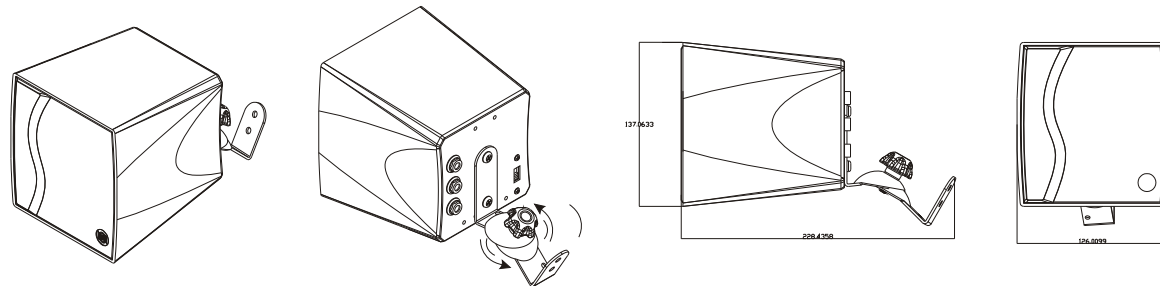
The **SOHO ARRAY SYSTEM** loudspeakers are heavy. It is recommended that a second person to help place the cabinet on a stand.

When the speaker is placed on a stand, always check the integrity and center of gravity of the system If the speaker can be tipped easily, or the pole is swaying, it is recommended that you lower the height of the stand. Position the stand and route cables so that the performers and the audience cannot tip over or trip on the system.



## Satellite Layout Of The Connector Panel

### One module

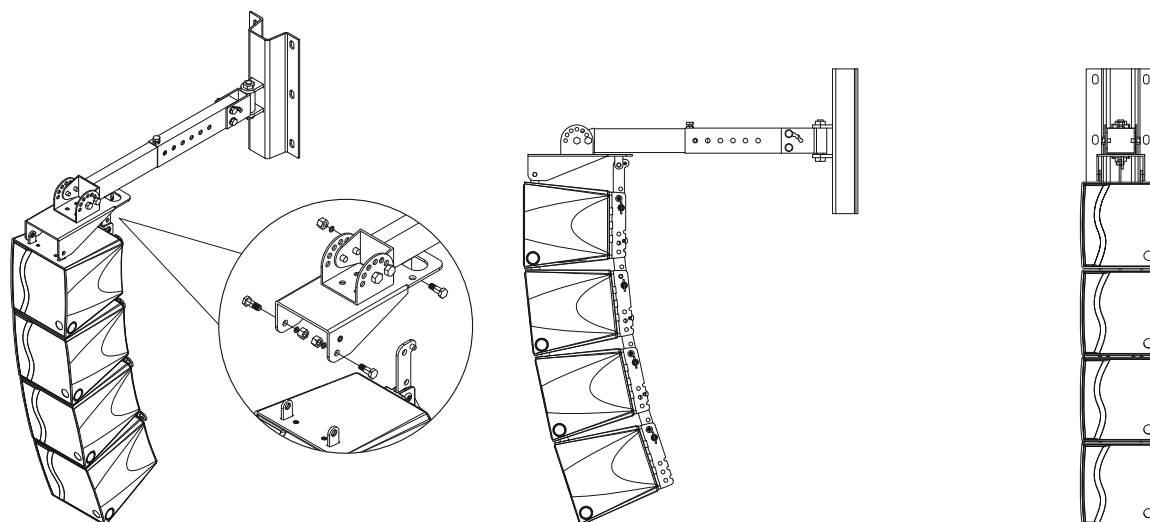


The direction of the bracket can be adjusted from any side.

### More module

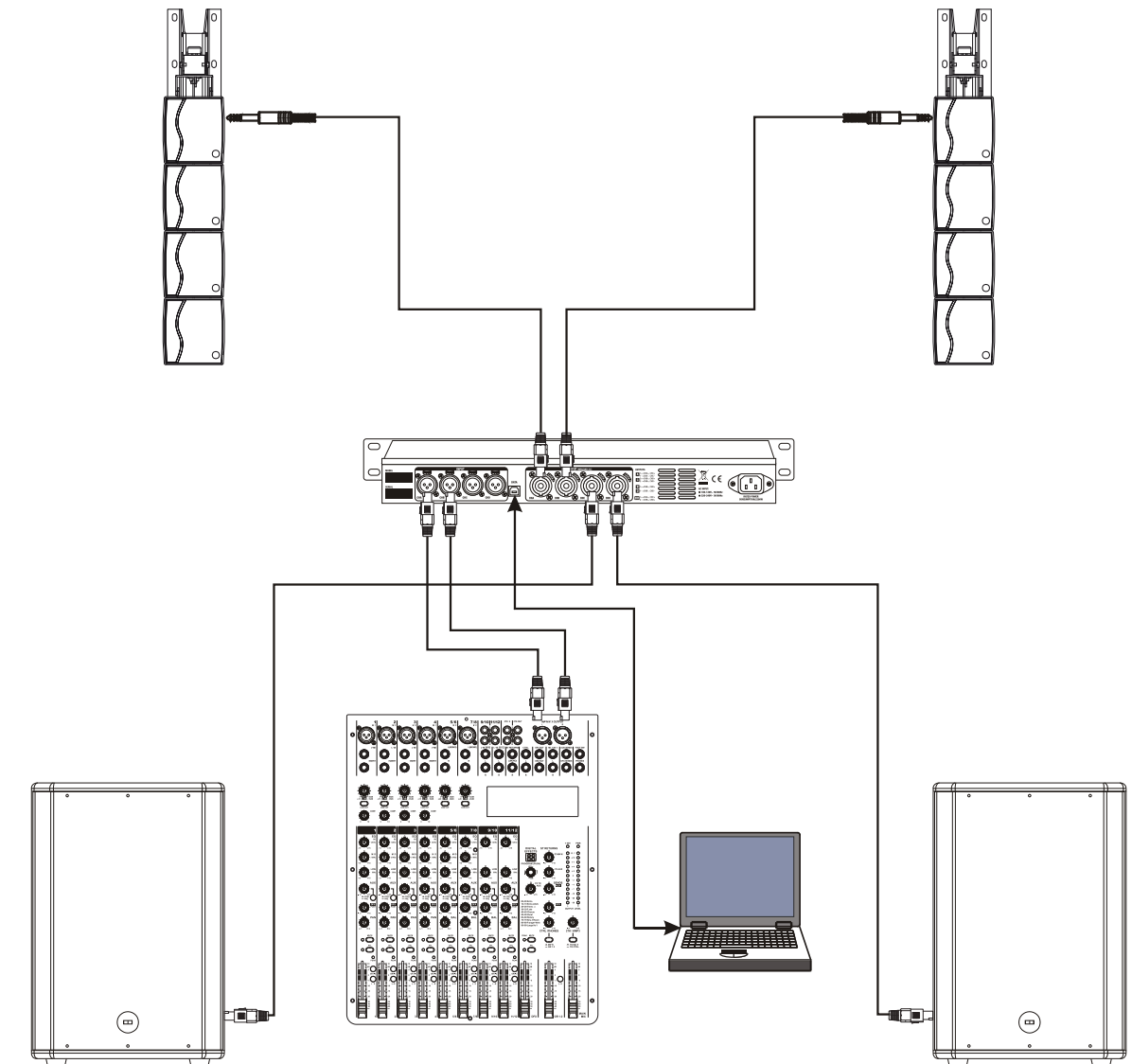
#### Versatile mounting options

Compared to many other speaker designs, the satellite Series is remarkably easy to install in several ways. It can be hung easily with chains, strong wires and cables using the accessory brackets. There are also options for hanging with a pre-install frame by itself or configured with a subwoofer. There are also other options including ceiling and wall brackets as well as an adapter for use with a dedicated stand.



The bracket support wall and ceiling mounting with most 8 modules .  
The direction and angle can be adjusted from any side.

## System Connection Plate



# 13

## System Connection Plate

USER PRESET: L\_SOHO M4(8pcs)+R\_SOHO M4(8PCS) + Option (2\*SOHO S12P or 2\*SOHO S28 )

EDIT→XOVER	FILTER TYPE	FILTER SHAPE	FILTER FREQ	PHASE
OPTION 1&2(Sub)	LPF	BW18	(212.7Hz---SOHO S12P) (233.3Hz---SOHO S28)	φ0
	HPF	BW12	43.2Hz	
OPTION 3&4(Sate)	LPF	LR24	20.16kHz	φ0
	HPF	BW18	111.4Hz ( 92.6dB_No Connect Sub)	
OPTION 5&6(Sate)	LPF	LR24	20.16kHz	φ0
	HPF	BW18	111.4Hz ( 92.6dB_No Connect Sub)	

EDIT→OUT EQ	FILTER SELECT	FILTER TYPE	FILTER FREQ	FILTER Q	FILTER GAIN
OPTION 1&2(Sub)	EQ1	PEAK	58.3Hz	1.5	2.5dB
	EQ2	PEAK	76.9Hz	1.26	9.0dB
	EQ3	PEAK	106.3Hz	1.5	3.5dB
	EQ4	PEAK	180.9Hz	1.3	-1dB
	EQ5	PEAK	6.21kHz	3	0dB
OPTION 3&4(Sate)	EQ1	PEAK	227.9Hz	0.56	2.0dB
	EQ2	PEAK	1.36kHz	0.79	-1.5dB
	EQ3	PEAK	7.30kHz	1	7.0dB
	EQ4	PEAK	15.28kHz	1.3	6.0dB
	EQ5	PEAK	20.16kHz	0.79	9.0dB
OPTION 5&6(Sate)	EQ1	PEAK	227.9Hz	0.56	2.0dB
	EQ2	PEAK	1.36kHz	0.79	-1.5dB
	EQ3	PEAK	7.30kHz	1	7.0dB
	EQ4	PEAK	15.28kHz	1.3	6.0dB
	EQ5	PEAK	20.16kHz	0.79	9.0dB

EDIT→OUTPUT GAIN	
OPTION 1&2(Sub)	(-2dB_SOHO S12P) (0dB_SOHO S28)
OPTION 3&4(Sate)	0dB(Default)
OPTION 5&6(Sate)	0dB(Default)

EDIT→INPUT EQ	FILTER SELECT	FILTER TYPE	FILTER FREQ	FILTER Q	FILTER GAIN
INPUT A(user option)	EQ1	PEAK	82.5Hz	3	1.5dB (3.0dB_SOHO S28)
	EQ2	PEAK	19.25kHz	1.9	3.0dB
INPUT B(user option)	EQ1	PEAK	82.5Hz	3	1.5dB (3.0dB_SOHO S28)
	EQ2	PEAK	19.25kHz	1.9	3.0dB

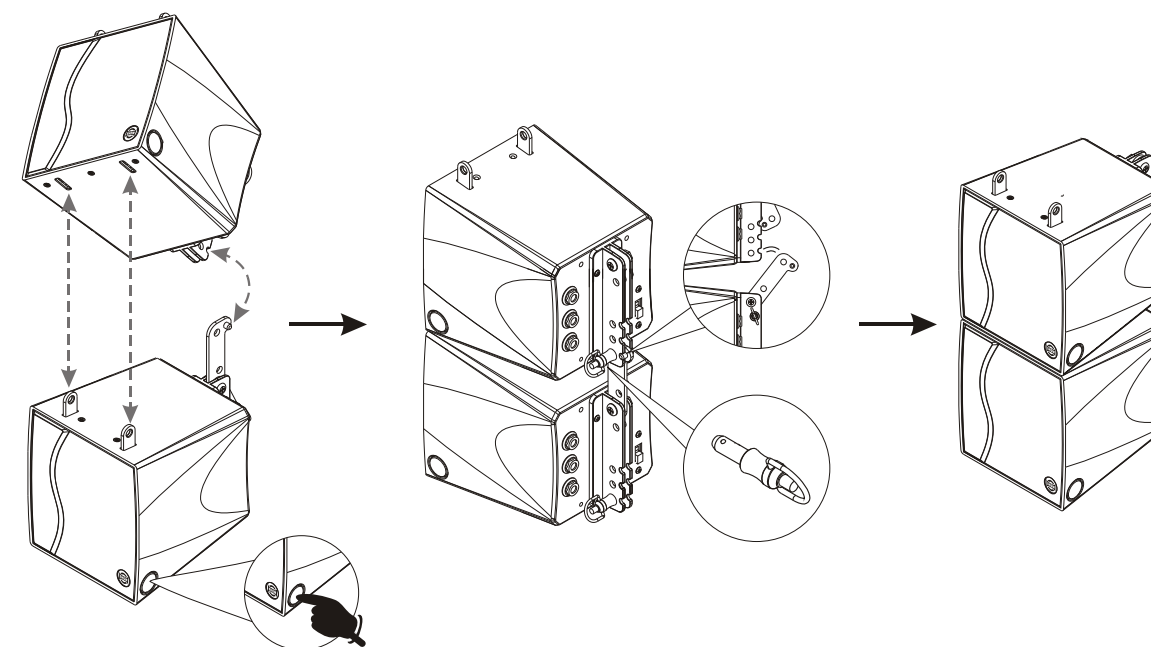
EDIT→COMP./LIM	THRESHOLD	ATTACK TIME	RELEASE TIME	RATIO
OPTION 1&2	-3dB	0ms(Default)	0ms(Default)	1:2
OPTION 3&4	-8dB	0ms(Default)	0ms(Default)	1:8
OPTION 5&6	-8dB	0ms(Default)	0ms(Default)	1:8

# 5

## Satellite Layout Of The Connector Panel

### Connect Manner

- 1 Insert the top plug into the bottom hole, and you have to press the round button meantime.  
Only in this way, you can connect successfully.
- 2 Insert the fix pin into the slot after the top plug and the bottom plug was connected successfully.
- 3 Lock the cabinet by the latch through the hole after placing the hole in place.



You can insert each three different holes when connecting the rear bracket.  
You can obtain different sound by different angles.

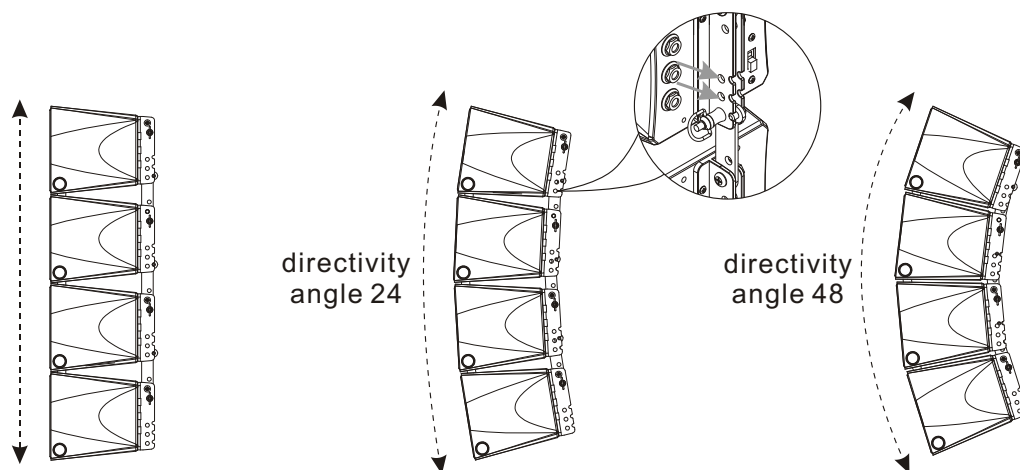
# 5

## Satellite Layout Of The Connector Panel

### Adjustable sound dispersion(for example four p c s )

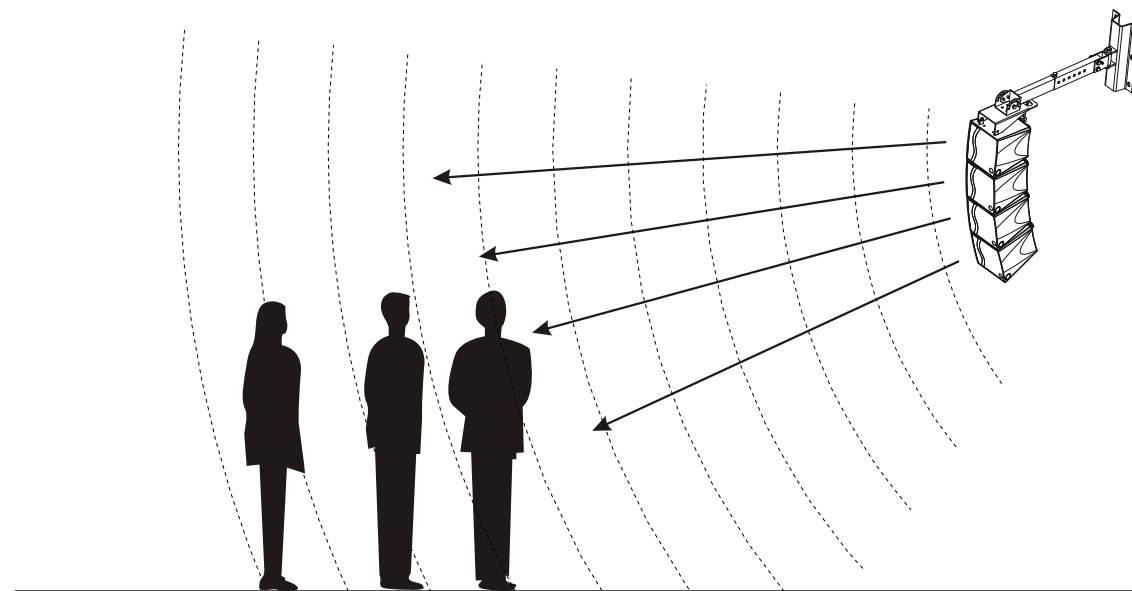
A system in configured by vertically stacking four speaker modules with a total driver complement of four woofers and 12 tweeters positioned along the baffle surface, this configuration allows the variable directivity control and low-frequency dispersion control comparable to using a large constant-directivity horn speaker.

A choice of three directivity angles---0, 6 and 12degrees can be employed as needed. For instance, a specific directivity angle, or each module can have its directivity independently set for a specific coverage requirement. When two or multiple modules are connected to configure an arc, they effectively function as an immense single speaker controlling directivity for considerably lower frequencies. As a result, public address functions demonstrate optimal intelligibility even in environments with long reverb times.



### Minimal reflective effects

Whether mounted on the wall or ceiling, the satellite is remarkably free from the comb filter and interference effects often encountered with other speaker designs. It can therefore produce more low frequency output even when mounted on the wall or ceiling.



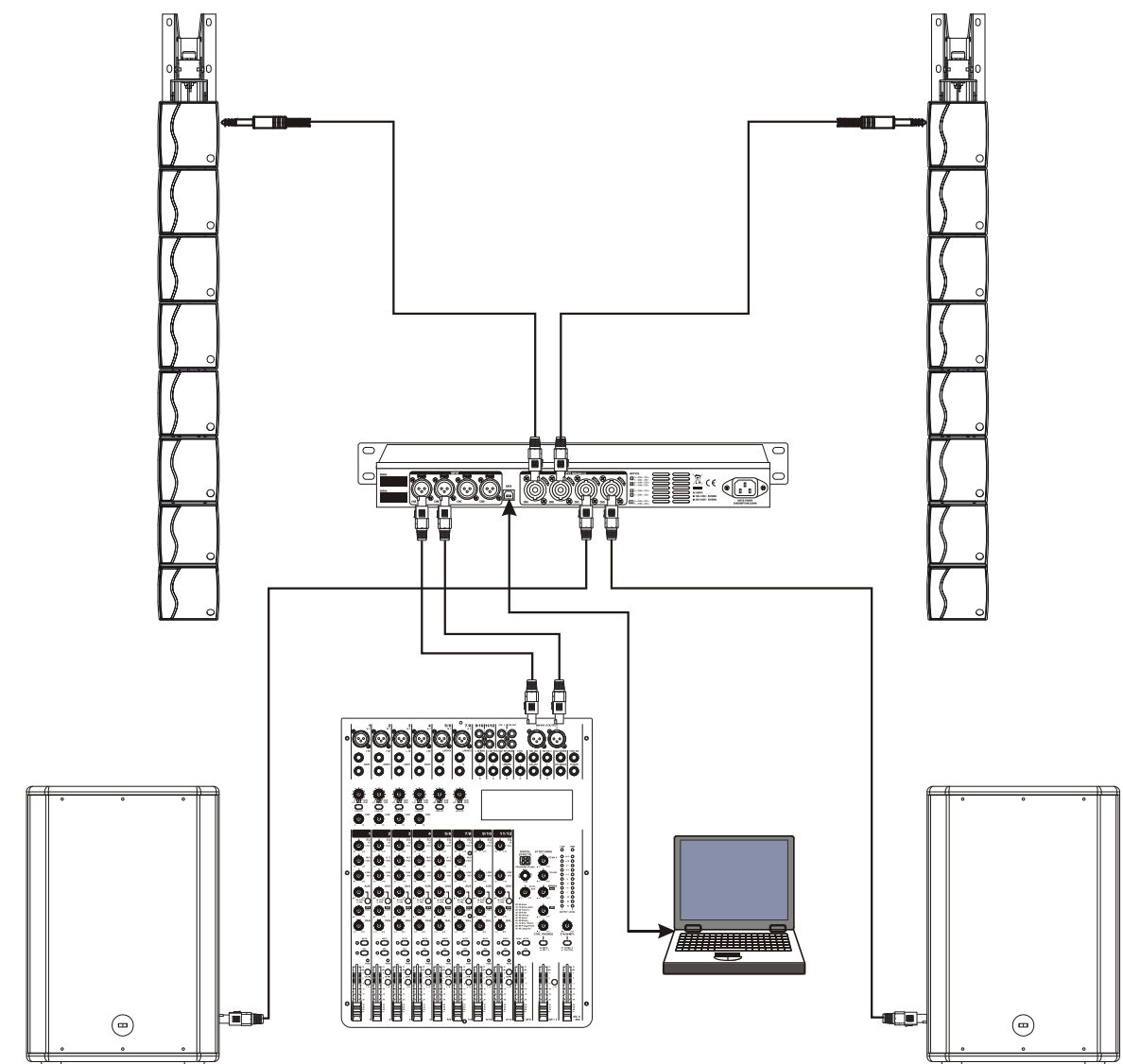
## System Connection Plate

# 13

Make your initial connections with all the equipment powered off, and ensure that all the main volume controls are turned completely down.

### Two Passive Subwoofers & Two Passive Satellite Speakers

- 1) Connect one side of the speaker cable to the Output CH A / CH B to Binding Post of your stereo power amplifier and the other side to the Input socket of your subwoofer, do the same connection on your second power amplifier and the 2-way full-range passive speakers with a second speaker cable.
- 2) Complete other connections as illustrated.
- 3) Turn on your mixer first, then the stereo power amplifier.
- 4) Turn up the volume controls of your amplifier to about 70%.
- 5) Use PFL function to get the proper input level for the mixer, and adjust the Main Mix Level control to manipulate the output level.
- 6) After using, turn off your stereo power amplifier first, then the mixer.

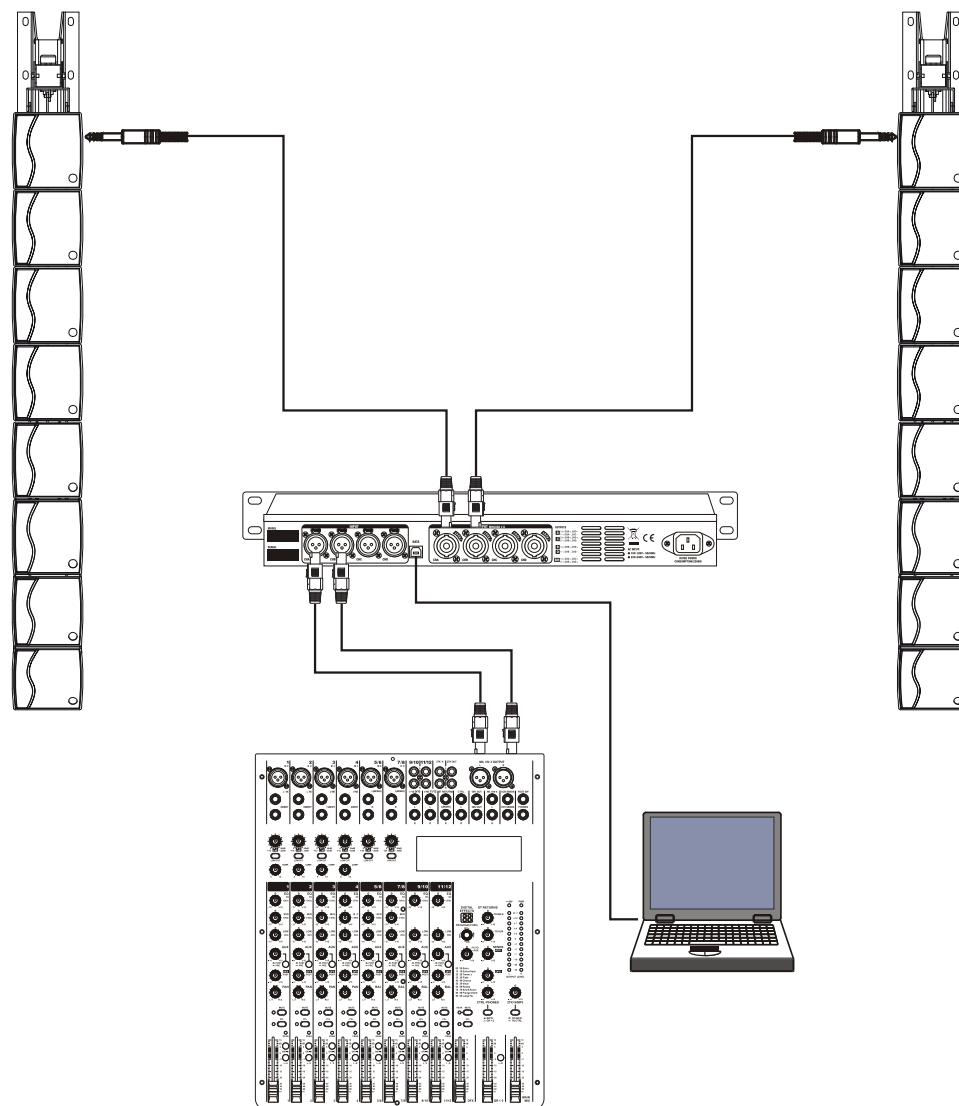


# 13 System Connection Plate

Make your initial connections with all the equipment powered off, and ensure that all the main volume controls are turned completely down.

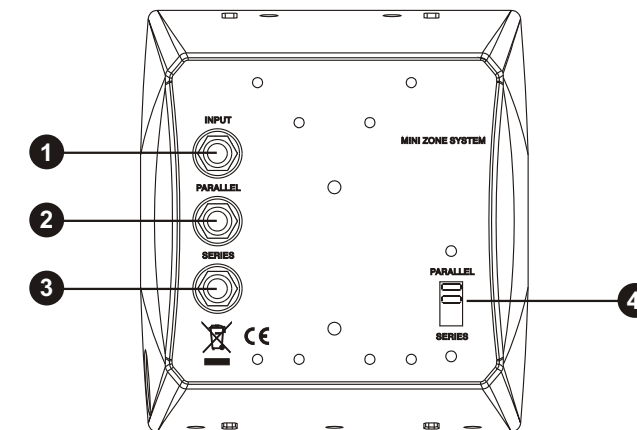
## For Passive Full-range Speaker Cabinet

- 1) Connect one side of the speaker cable to the Output CH A / CH B to Binding Post of your stereo power amplifier and the other side to the Input socket of your speaker cabinet.
- 2) Complete other connections as illustrated.
- 3) Turn up your mixer first, then the stereo power amplifier.
- 4) Turn up the volume controls of your amplifier to about 70%.
- 5) Use PFL function to get the proper input level for the mixer, and adjust the Main Mix Level control to manipulate the output level.
- 6) After using, turn off your stereo power amplifier first, then the mixer.



# Satellite Back Panel Description

# 6



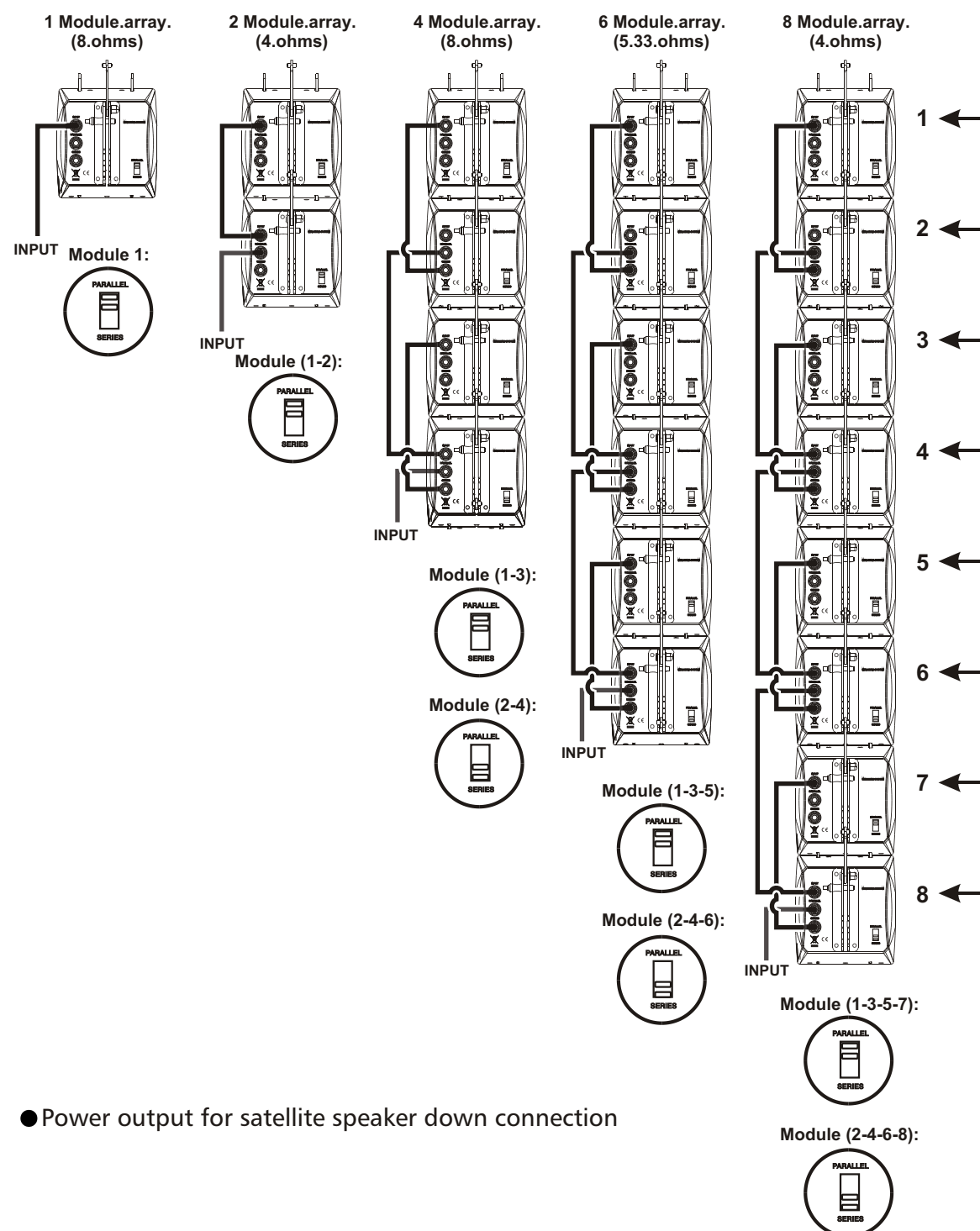
- 1 INPUT: Receive the power coming from an external power amplifier.
- 2 PARALLEL: power output for another product to parallel, parallel and input are link.
- 3 SERIES: Power output for another satellite speaker to series.
- 4 Slide Switch: Parallel or Series Transform Switch

- a. set the slide switch at "parallel" position to make the product in parallel.
- b. Set the switch at "series" position to make products in series, but the slide switch of the last product has to set at "parallel" position.



# 7

## Satellite Down Connection



## Sub Technical Specifications

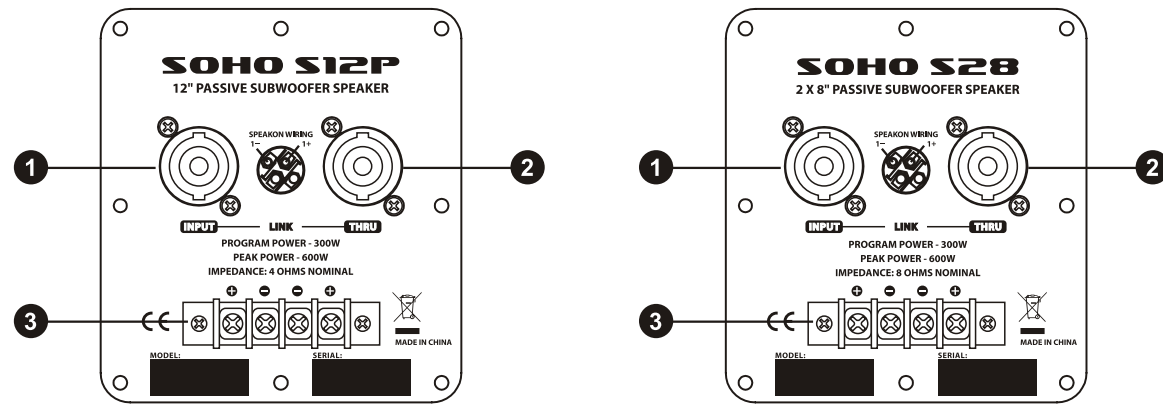
# 12

Model Active	SOHO S28
System Type	2*8" Passive Subwoofer Speaker
Rated Power	300W Program, 600W Peak
Sensitivity	121dB Continuous / 124dB Peak
Frequency Response	52Hz-800Hz (-10dB)
Impedance	8 ohms
Transducer Low	2*8" (208mm)Ferrite Woofer, 2" (50.5mm) Voice Coil
Connector	4 PIN Terminal Block and 2*NL-4 Speakon Parallel Socket
Enclosure Construction	Plywood Cabinet, Resistant Black Paint, Metal Grille
Mounting information	One Metal Standard Pole-mount
Dimensions (WxHxD)	(W)250mm*(H)510mm*(D)540mm (W)9.84"ins*(H)20.08"ins*(D)21.26"ins
Net Weight	18.50kg / 40.78 lbs

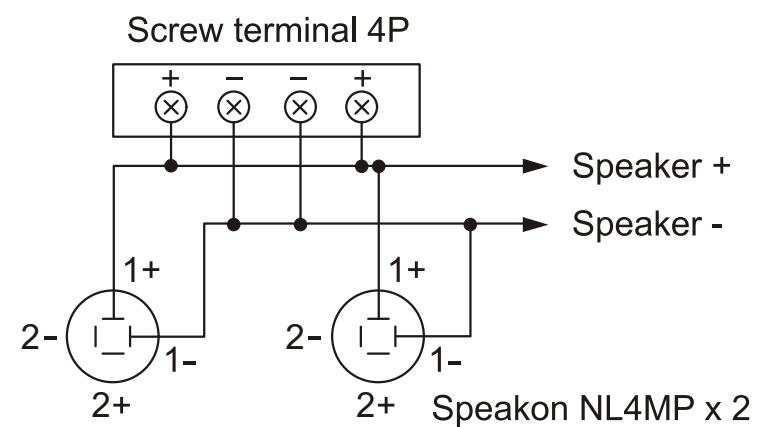
Model Active	SOHO S12P
System Type	12" Passive Subwoofer Speaker
Rated Power	300W Program, 600W Peak
Sensitivity	122dB Continuous / 125dB Peak
Frequency Response	45Hz-2.8kHz (-10dB)
Impedance	4 ohms
Transducer Low	12" (320mm)Ferrite Woofer, 2.55" (64.5mm) Voice Coil
Connector	4 PIN Terminal Block and 2*NL-4 Speakon Parallel Socket
Enclosure Construction	Plywood Cabinet, Resistant Black Paint, Metal Grille
Mounting information	One Metal Standard Pole-mount
Dimensions (WxHxD)	(W)350mm*(H)500mm*(D)542mm (W)13.78"ins*(H)19.69"ins*(D)21.33"ins
Net Weight	20.10kg / 44.31 lbs

# 11

## Sub Back Panel Description

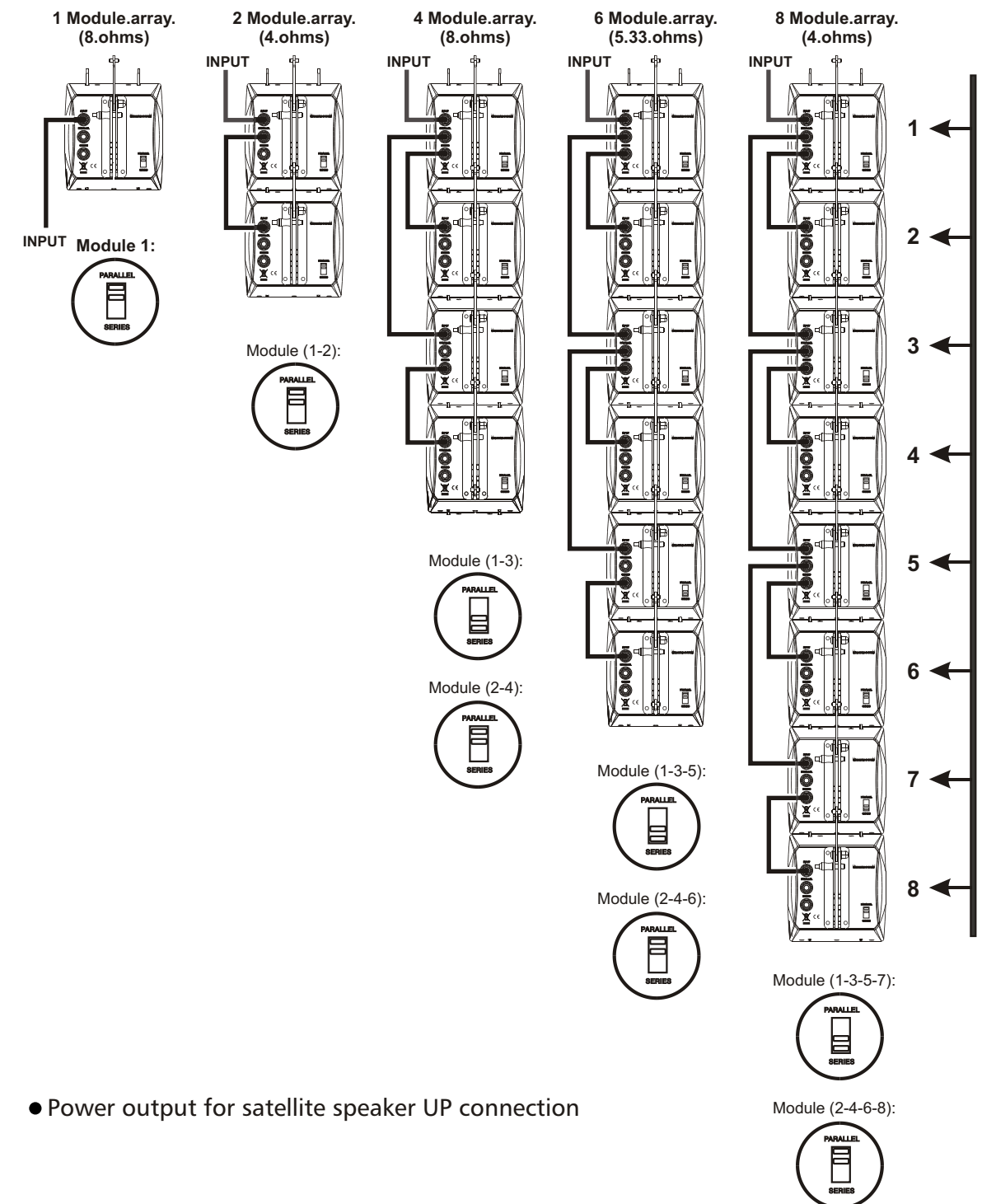


- ❶ INPUT: Receive the power coming from an external power amplifier.  
(SPK +1/-1 connected; +2/-2 not connected).
- ❷ OUTPUT: Power output for satellite speaker, under passive crossover filtered at 180 Hz.  
(SPK +1/-1 connected; +2/-2 not connected).
- ❸ Speakon Parallel Socket



## Satellite Up Connection

# 8



- Power output for satellite speaker UP connection

## Satellite Technical Specifications

Model Active	SOHO M4
System	4" Two-way passive system
Rated Power	30W
Sensitivity	88dB Continuous / 91dB Peak
Frequency Response	100Hz-20kHz (-10dB)
Crossover Frequency	3.0kHz passive
Transducer Low	4" (105*105mm) Ferrite Woofer, 1" Voice Coil 8 ohms
Transducer High	3*0.5" (13mm) soft dome tweeters / 12 ohms
Dispersion(-6dB)	110H horizontal, 20 Vertical (one module)
Enclosure	Aluminum Alloy Cabinet
Finish	Resistant Black Paint
Connectors	Parallel or Series $\phi$ 6.3Socket / Selection Switch
Fittings information	Steel Stirrup Material , 3 Flying Points M6 Threaded Sockets (3 in top)
Dimensions (HxWxD):	(W)126mm*(H)136mm*(D)136mm (W)4.96"ins*(H)5.35"ins*(D)5.35"ins
Net Weight	1.45kg / 3.20 lbs

### satellite Line Array:

Indicates number of amp ch & impedance (per ch)  
Multiple modules connected in series (+) & parallel (//)  
See patch sketches in "Powering your mini line array."

Single channel configuration		Array Power Rating(AES)
1 module array	1ch 8 ohms	30W
2 module array	1ch 4 ohms (2//)	60W
4 module array	1ch 8 ohms (1+2)/(3+4)	120W
6 module array	1ch 5.33 ohms (1+2)/(3+4)/(5+6)	180W
8 module array	1ch 4 ohms (1+2)/(3+4)/(5+6)/(7+8)	240W

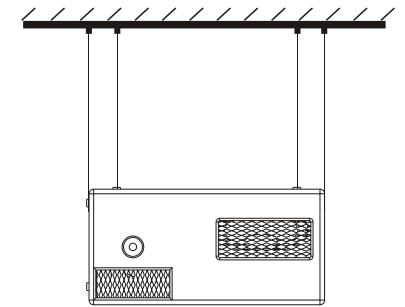
## Sub Layout Of The Connector Panel

### Configuring the SOHO S12P / SOHO S28 Subwoofer

Before you start plugging in cables, you should take a minute to decide how you want to inter-face your new subwoofer. Most system set-ups fall into one of two categories: Mono or Stereo sub operation.

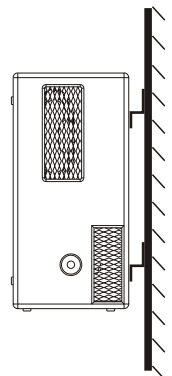
#### Mono Sub Operation

In most cases, a common (mono) sub bass setup is preferable. Low frequencies produced by a sub woofer tend to be non-directional. Since low frequency waves take so much space to develop, it is difficult for the ear to tell if sub bass is coming from the left or right side (unless you are in a very large room). Because of this phenomenon, just about all sub bass material is mixed in mono.



#### Stereo Sub Operation

In larger rooms, as well as in theaters and theme park installations (for low frequency special audio effects), two or more subwoofers can be used in stereo. For additional low-end, you can daisy chain a pair of subwoofers to each side of your speaker system using the parallel outputs.



#### Positioning the Subwoofer

The placement of the subwoofer can affect the overall performance of your system since room acoustics may create standing waves, an acoustical phenomenon that causes certain bass frequencies to sound louder. Here are a few points you should consider when setting up your system, which can help you achieve optimal performance in your space.

The ideal placement of the subwoofer is as close to the main front of house speakers as possible, in order to blend the satellites and subwoofer. Mounting the satellite speakers on top of the subwoofer allows you to align the drivers. The closer the subwoofer is to a wall, the louder the bass frequencies will sound, and you can adjust the mix between the subwoofer and satellite speakers by moving the subwoofer closer to and further from a wall.

Avoid placing the subwoofer in a corner. This can make the subwoofer appear to be louder, but only for a limited frequency band, and will make the mix sound "boomy" and not well defined. The best way to increase the overall level of bass is to add a second subwoofer.

